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TITLE: Remote control vehicle seat and steering wheel positioning systemBrief Summary Text (3):

Power operated seats have long been employed in many vehicles. These seats typically allow the vehicle driver or passengers to position the seat to particular desired comfortable positions. Several electric motors are typically used to position the seat through particular adjustment ranges. Depending on the number of electric motors in the vehicle's seat, the seat may be moved forward or backward, up or down, raise one end while lowering the other, and the seat back incline may be also adjusted, as well as the headrest. Power operated steering wheel positioning systems have also been used in some vehicles permitting extension and retraction of the steering wheel toward or away from the driver. Switches located on either the vehicle door, instrument panel or console permit the driver or passenger to adjust the seat and steering wheel positioning as desired.

Brief Summary Text (10):

Yet another object of this invention is to provide a remote control vehicle seating position system wherein, upon actuation of the system remote control and receipt of the predetermined code, the vehicle driver's seating position is automatically positioned to an "easy access" position, thereby providing the maximum attainable legroom for the easiest entry into the vehicle, and which, upon actuation of the vehicle ignition switch, moves the seat to a memory seat position associated with the received remote control signal code.

Brief Summary Text (16):

In accordance with another aspect of the invention, a remote controlled vehicle seat and steering wheel positioning system is described, that operates in conjunction with a car alarm. Whenever the alarm is activated, the steering wheel and seat are automatically moved to an alarm position where the seat and the backrest are moved as forward as possible, and the steering wheel is extended to its highest position, thereby virtually preventing the vehicle from being driven. The system includes a multi-channel remote transmitter, and a receiver unit mounted in the vehicle. A security system controller is responsive to the signals from the transmitter and received by the receiver to arm and disarm the security system, and to door trigger, ignition switch sensor and other security system triggers and sensors to generate an alarm signal when the system detects an unauthorized intrusion when the system is in the armed state.

Detailed Description Text (7):

FIG. 8 shows in a simplified diagrammatic fashion the possible ranges of movement controllable in an exemplary vehicle for positioning the driver's seat 93 and vehicle steering wheel 94. In this example, five different electric motors 95-99 are used for positioning the seat and steering wheel along the respective axes A1-A5. Of course, other vehicles may use fewer or more electric motors, depending on the number of positioning movements to be provided by the vehicle. Motor 95 moves the seat 93 toward or away from the steering wheel 94 along axis A1. Motor 96 rotates the seat back toward or away from the steering wheel in the direction of axis A2. Motor 97 adjusts the seat's rear height along axis A3. Motor 98 extends or retracts steering wheel 94 along axis A4. Motor 99 adjusts the seat's front height along axis A5. It will be appreciated that the motors 95-99 and associated drive coupling arrangements (not shown) for transferring the motor energy to the seat and steering wheel are well

known.